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A SELECTED BIBLIOGRAPHY ON THE TOXICOLOGY OF THE BENTHIC INVERTEBRATES AND PERIPHYTON

by

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16. ABSTRACT

The effectiveness of measures taken to maintain and restore the biological integrity of the Nation's surface waters is dependent upon our knowledge of the toxicity of pollutants and their effects on the species composition, and abundance of aquatic life in receiving waters. This bibliography was compiled to assist aquatic biologists in keeping abreast of the most recent developments in aquatic toxicology and in evaluating data collected in studies of the effects of toxic substances on the biological integrity of the benthic invertebrates and periphyton.

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FOREWORD

Environmental measurements are required to determine the quality of ambient water, the character of effluents, and the effects of pollutants on aquatic life. The Environmental Monitoring and Support Laboratory - Cincinnati conducts an Agency-wide quality assurance program to assure standardization and quality control of systems for monitoring water and wastewater and conducts research to develop, evaluate, and promulgate methods to:

* Measure the presence and concentration of physical, chemical, and radiological pollutants in water, wastewater, bottom sediments and solid waste.
* Concentrate, recover, and identify enteric viruses, bacteria, and other microorganisms in water.
* Measure the effects of pollution on freshwater, estuarine, and marine organisms, including the phytoplankton, zooplankton, periphyton, macrophyton, macroinvertebrates, and fish.
* Automate the measurement of physical, chemical, and biological quality of water.

The effectiveness of measures taken to maintain and restore the biological integrity of the Nation's surface waters is dependent upon our knowledge of the toxicity of pollutants and their effects on the species composition, and abundance of aquatic life in receiving waters. This bibliography was compiled to assist aquatic biologists in keeping abreast of the most recent developments in aquatic toxicology and in evaluating data collected in studies of the effects of toxic substances on the biological integrity of the benthic invertebrates and periphyton.

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